

CEMS Application Completion Check South Coast Air Quality Management District • Source Test Engineering Branch



Before you submit your CEMS Application, did you:
☐ Identify the type of CEMS to be installed (RECLAIM, non-RECLAIM, single-dedicated CEMS, time-shared CEMS, ACEMS, FSMS)?
☐ Identify whether this is a new CEMS, or an existing CEMS modification?
☐ Identify whether the source monitored by this CEMS, has an existing certified CEMS?
Fully identify the source(s) monitored by the CEMS and pollutants to be monitored, permitted pollutants limits, the South Coast AQMD identification (Permit-to-Construct, Permit-to-Operate, Facility ID), and attach a copy of the Permit?
Describe the process(es) monitored, expected contaminant gas concentrations and attach a drawing of the process?
Describe the exhaust stack where the CEMS will acquire a gas sample and attach a drawing?
Describe the components of the CEMS (analyzers, flow measurements, DAS, PLC, recorders), and attach a schematic drawing and vendors specification sheets?
☐ Identify how pollutant emissions will be calculated, recorded, and reported, and the programming logic involved to meet compliance with all applicable South Coast AQMD rules and permit conditions concerning CEMS monitoring?
☐ Supplemental sheets concerning other facility sources which will use this CEMS information?
[(RECLAIM ONLY): Have you contacted Mr. George Haddad (ghaddad@aqmd.gov) concerning your RTU reporting obligations?
CEMS Quality Assurance Plan (QAP) to be submitted before CEMS Certification can be issued?
Facility contact information, and signed and dated by a facility representative (not a consultant or a source test lab)?
The completed CEMS Application includes: ☐ Completed <i>PART 4</i> of this packet, plus attachments, ☐ Completed CEMS Fee Processing Form <i>ST-400</i> , and a check for the appropriate basic processing fee, ☐ and a cover letter briefly describing your CEMS situation.
DO NOT attach this CEMS Application, <i>Form ST-400</i> , or CEMS fees to any other South Coast Air Quality Management District correspondence (Permitting submittals, etc.). CEMS Application and Certification is handled separately from the Permitting process. This submittal must be directed to:
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT Monitoring & Analysis Division, Source Test Engineering Branch 21865 Copley Drive Diamond Bar, CA 91765-4182*
*expedited FedEx, UPS, USPS or courier delivery: mark envelope "Hold at Front Desk for Pick-up by Source Testing Staff (ext. 2273)"



South Coast Air Quality Management District 21865 Copley Drive, Diamond Bar, CA 91765-4182

FORM ST-220AP

Monitoring & Analysis Division, Source Test Engineering Branch

APPLICATION FOR INITIAL CERTIFICATION, OR MODIFICATION, OF RECLAIM AND NON-RECLAIM CONTINUOUS EMISSIONS MONITORING SYSTEMS (CEMS)

	Applicant: Please ch	eck a	ll that are applicable regarding your submittal:	
Present	Currently or Pr	evio	ously Certified New REC	CLAIM
Status:	(certification no		date) ¹ Source Non	-RECLAIM
Type of	☐ Initial ☐ M	odif	ication / Recertification due to:	
Application:			Modification ☐ CEMS Modification ☐ Rule/Permi	t Change
Source(s) Monitored:			than one (time-shared, SCEMS) than one <u>SOx</u> source (FSMS only):	(specify number)
Type(s) of CEMS:	NOx CO SOx Fuel		\bigcirc \bigcirc \bigcirc Time- \bigcirc FSMS \bigcirc Flow Shared \bigcirc SCEMS \bigcirc	ACEMS
Management Districe end of this form.		ng B	completely as possible, and return it to the South ranch. If additional space is required, attach supplen	
Facility ID) No.	:		
Facility Pe	ermit Holder	:		
Mailing A	ddress	:		
	t Location Company Name if different s License Name listed above)	:		
Company	Contacts	:	Name	Phone
			Title	E-mail Address
		:		
			Name	Phone
			Ti4-	E 3 4 11

¹ Be sure to attach a copy of your most recent CEMS Certification to this Application.

2. CEMS HISTORY AND REPORTING REQUIREMENTS Please provide some background concerning your CEMS proposal so that we can better determine if you are fulfilling (or overfulfilling) your CEMS monitoring obligations

a. SOURCE (OR SOURCES) MONITORED BY THIS CEMS

SOx CEMS Applicants Only: If this CEMS is an FSMS, also complete Appendix F.

EQUIPMENT 1:				
South Coast AQMD Description (from Application or Permit, including control equipment)	Appl :	ication/Permit No. or REC	CLAIM Device I.D.	
Operating Rate (incl units)	:	Design	Normal	
Process Characteristic	:	☐ Continuous ☐ Intermittent ² :	Batch:	
This equipment is:	:	☐ New ☐ Existing with ex	Existing with no ex	
	Appl	ication/Permit No. or REC	CLAIM Device I.D.	
Description (from Application or Permit, including control equipment)	:			
Operating Rate (incl units)	:	Design	Normal	Minimum
Process Characteristic	:	☐ Continuous ☐ Intermittent²	Batch:	(hrs/batch) (hrs/day) or (/)
This equipment is:	:	☐ New ☐ Existing with ex	Existing with no ex	

² Equipment operates on-demand, is supplemental, or is a back-up to another piece of equipment.

EQUIPMENT 3:				
South Coast AQMD Description (from Application or Permit, including control equipment)	Appl:	lication/Permit No. or RE	CLAIM Device I.D.	
Operating Rate (incl units)	:	Design	Normal	Minimum
Process Characteristic	:	☐ Continuous ☐ Intermittent ² :	Batch:	(hrs/batch)(hrs/day) or (/)
This equipment is:	:	☐ New ☐ Existing with e	Existing with no e	
EQUIPMENT 4:	Annl	lication/Permit No. or RE	CLAIM Device LD	
Description (from Application or Permit, including control equipment)	:			
Operating Rate (incl units)	:	Design	Normal	Minimum
Process Characteristic	:	☐ Continuous ☐ Intermittent²	Batch:	
This equipment is:	:	☐ New ☐ Existing with e.	Existing with no e	

).	PRESENT CEN CEMS not in	MS STATUS stalled (approx: ☐ order ☐ ii	nstall date:)
	CEMS install	led CEMS installed & Oper	ating (date:)
•	Briefly describe and attach a cop Facility Permit, that you thoroug Coast AQMD I obligations, and	what necessitated this CEMS property of the applicable part of the Permit-to-Construct, or Permit-thly discuss your continuous mermitting Engineer to assure also to assure that you are not ontinuously monitored):	e South Coast Air Quality M to-Operate in <i>Attachment 1</i> . onitoring requirements with y that you have fulfilled all of	Ianagement District (It is recommended your assigned South of your monitoring
	Contaminant <u>Monitored</u>	Applicable Rule or Permit Condition or "Self Elected"	Continuous Monitorin	g Requirement
	□NOx		Concentration Limit:	ppm d to: □3% □15% O2)
	SOx		Concentration Limit:	d to: 3% 15% O ₂)
	СО		Concentration Limit:(correcte	d to: 3% 15% O ₂)
	other:		Concentration Limit:	d to: 3% 15% O ₂)
	Comments conce	erning above requirements:		
			MENTE DICTIDIOTE CONTENT	N/DC
1.		T AIR QUALITY MANAGEN	MENT DISTRICT CONTAC	718
	Permitting Engir	neer:	(name)	(phone ext)
	Inspector:	-	(name)	(phone ext)
	Source Testing E	Engineer:	(name)	(phone ext)

³ There is a distinction between contaminants which require continuous monitoring (CEMS), and contaminants which are required to be monitored periodically or non-continuously, such as annual CO and NOx monitoring for Permit Compliance. These distinctions aren't always clearly explained in the Permit Conditions. Be sure to contact an South Coast Air Quality Management District Permitting Engineer for clarification on what is - and what is not required before proceeding with a CEMS Application.

3. PROCESS DESCRIPTION

Briefly describe manufacturing and control processes in the space below, and include a simplified process flow diagram in *Appendix A*.

4. FUEL AND FLUE GAS INFORMATION

Please include a simplified stack diagram in Appendix B. <u>ACEMS Applicants:</u> Complete specified sections only. <u>Time-Shared CEMS Applicants:</u> Make copies of this page and list information based on individual sampling locations.

a. STACK SAMPLING DIMENSIONS (ACEMS Applicants: note specific requirements)		Diamei	er or Leng	th	Width
Stack dimensions	:	:			
		ft.	in _.	ft.	in.
Overall stack height	:		ft.	in.	
CEMS probe tip distance in stack from stack w (ACEMS Applicants: does not apply, leave blank)	all :	:	ft.	in.	
CEMS probe distance downstream from disturbute (ACEMS Applicants: this is the Reference Method CEMS probe dist		:	ft.	in.	
CEMS probe distance upstream from disturban (ACEMS Applicants: this is the Reference Method CEMS probe dist		:	ft.	in.	
Reference sample port distance from CEMS property (ACEMS Applicants: does not apply, leave blank)	obe :	: f	t.		Upstream Downstream (check)
b. ANTICIPATED FLUE OR STACK PAR	AMETERS				
Contaminant Gas : NO _x :to	ppm	SO _x		to	ppm
CO :to	ppm	():		to	ppm
(Other gas) ():to	ppm	():		to	ppm
Diluent Gas : CO ₂ :	%	O ₂ :		to	%
(Other gas) ():to	%	():	<u> </u>	to	%
Temperature:o	F Static Pre	ess:		_to	" H ₂ O
Moisture:	6 Flowrate	:		_to	dscfm
Particulate Matter :	to				gr/dscf
c. ANTICIPATED FUEL PARAMETERS					
Fuel Type : Natural Gas (spec	rify)				
Sulfur Content ⁴ :	to_				ppm
CO ₂ ⁴ :					
Moisture ⁴ : to	6 Meter Pro	es.		to	nsio

⁴ Only applies for fuel other than natural gas.

manufactu Appendix are shared	rer's <i>G</i> , in:	specification	she ndix	eets. <u>ACEMS</u> C. <u>Time-Shar</u>	S A	plified CEMS diagram in pplicants: Complete only CEMS Applicants: Indicate v	Sections 5.c. &	e. and
Gas Monitored		Make		Model		Method of Detection (NDIR, etc.)	Proposed Range(s)	(check) ⁵ dry wet
b. PRINC	IPAI	L FLOW MO	NI	ГOR				
Type: fuel flow		Make		Model	Pı	rinciple (Orifice, Pitot, etc.) Description or Purpose	Proposed Range	(check) ⁶ cor unc
c. SUPPLI	EME	ENTAL COM	ΙΡΟ	NENTS ⁷ / PI	RIN	NCIPAL ACEMS COMI	PONENTS	
Paramete	er	Make		Model Description or Purpose				
d. SAMPL	E A	CQUISITIO	N &	CONDITIO	NI	NG SYSTEM (probe, chill	er, etc.)	
Make		Model				Description		
				(Single-Po	oint	Multiple ⁸ -Point Probe):	:	
				(Conditioning	g Sy	ystem / Chiller):		
						QUIPMENT (Computer, D	AS, PLC, Chart Reco	order etc.
Make	LAIM	Model	nicn	component will	be c	Description		
				(DAS):		rr		
				(PLC):				
				(Software):				
				(Recorder):				
		l		· · · · · · · · · · · · · · · · · · ·				

⁵ Specify whether reported raw gas reading will be to "*dry*" or "*wet*" conditions, excluding external corrections (If any readings are "*wet*", be sure to detail how they will be corrected to dry standard conditions in *Appendix D*).

⁶ Specify whether reported raw fuel or flue reading will be corrected "unc" or uncorrected "cor" to dry standard conditions, excluding external corrections (If readings will be "*unc*", be sure to detail how they will be corrected to dry standard conditions in *Appendix D*).

⁷ Components used to augment the performance of the principal gas and flow components listed in *a.* & *b.* (temperature, pressure, and moisture

correction devices, for instance).

⁸ Be sure to complete Appendix C1. You must successfully bench-test this probe before CEMS Initial Approval can be granted.

6. CEMS EXPENDITURE Equipment & Materials Total System as Installed Estimated Cost of Equipment : **CEMS Contractor** Address Phone 7. DETERMINATION OF REQUIRED MONITORING PARAMETERS Check below how you propose to meet applicable rule and permit condition monitoring requirements for each monitored pollutant of this CEMS. Detail, step by step in Appendix D, how these parameters will be applied to the final monitoring requirement by use of equations, assumptions, and calculations. (Be sure to detail how corrections will be made to dry, standard conditions, or conditions imposed by rules or permits). Constants, factors, and/or coefficients not used in commonly accepted equations; or non-standard equations, must be submitted with full explanation and supporting documentation (historical data, etc.). Check all that apply for your particular monitoring situation: Gas **Concentration Based On:** Flowrate Based On: **Emission Rate Based On:** NOx: Direct Gas Measurement Direct Stack Flow Meas. Direct (conc x stack flow) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) + O₂ Correction (O₂ Analyzer) Standard Fuel F-Factor Standard Fuel F-Factor SOx: Direct Measurement Direct Measurement Direct (conc x flowrate) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Fuel Sulfur Content (FSMS) Fuel Sulfur Content (FSMS) Fuel Usage Standard Fuel F-Factor Standard Fuel F-Factor + O₂ Correction (O₂ Analyzer) CO: **Direct Gas Measurement** Direct Stack Flow Meas. Direct (conc x stack flow) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Standard Fuel F-Factor Standard Fuel F-Factor + O₂ Correction (O₂ Analyzer) Direct Gas Measurement Direct Stack Flow Meas. Direct (conc x stack flow) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) Predicted (ACEMS/PEMS) + O₂ Correction (O₂ Analyzer) Standard Fuel F-Factor Standard Fuel F-Factor

8. COMPUTER PROGRAMMING LOGIC FOR THE PARAMETERS IN SEC. 7

Briefly describe in *Appendix E* how these parameters will be programmed into the data reduction and recording units. Use block diagrams, or a copy of recorded data if needed, to show the location in the program where constants, variables and other parameters are entered. Indicate DAS polling frequency. *ACEMS Applicants* must also discuss redundancy and/or remediation for primary parameter error or failure.

9. APPLICABLE PERMITS AND PERMIT CONDITIONS

Please attach applicable permits and permit conditions related to all basic and control equipment which will be monitored by the CEMS (Label as "Attachment 1", or attach to sheet provided).

10. MANUFACTURER'S OR VENDOR'S CEMS SPECIFICATIONS

Please attach manufacturer's or vendor's specification sheets for all equipment or devices which relate to the CEMS (Label as "Attachment 2", or attach to sheet provided).

11. QA/QC PROCEDURES

All CEMS applicants⁹ shall submit a <u>complete</u> Quality Assurance Plan (QAP) according to RECLAIM Regulation XX and Rule 218. In this Plan, you must address the on-going maintenance and contingencies necessary to assure the continued reliability of emission information. Discuss scheduled and unscheduled maintenance, contingencies for equipment/CEMS outages and modifications, recordkeeping and reporting, calculation methodology, periodic testing, personnel responsible for assuring implementation of this Plan, etc. If you have already prepared a QAP for this CEMS, please include a copy with this Application, and label it as "Attachment 3". If the QAP is not yet completed, briefly describe or outline its content, and include it as "Attachment 3". NOTE TO ALL APPLICANTS: The completed QAP must be submitted, and approved before CEMS "Final Certification" can be granted.

12. REMOTE TERMINAL UNIT (RTU) (RECLAIM CEMS Applicants Only)

Although not technically classified as a part of the CEMS which you have described in this Application, an approved RTU is required, pursuant to RECLAIM RULES 2011 and 2012, to electronically report CEMS emission information to the South Coast AQMD on a daily basis (or at an interval specified by other rules or permit conditions). Please contact Mr. George Haddad in the South Coast AQMD's Information Management Division (IM), at (909) 396-2650 (e-mail: ghaddad@aqmd.gov) for more information regarding RTU specifications, capabilities, and approval. For our records, please indicate present RTU status:

1
This proposed CEMS will use an existing RTU which is capable of connecting to the South Coast Air Quality Management District (serves previously certified CEMS or CEMS undergoing certification, at this facility).
There is presently no RTU installed at this facility. Part of this CEMS proposal includes RTU specifications which will be forwarded to the person listed above.
New RTU is installed and is capable of connecting to the South Coast Quality Management District.

⁹ Effective May 14, 1999, Non-RECLAIM CEMS applicants must also prepare a QAP. ACEMS applicants shall submit a QAP for each parameter measured.

13.	CEMS INSTRUMENT ENCLOSURE (Please indicate below):
	☐ CEMS will be enclosed in an environmentally-controlled shelter with: ☐ Temperature alarm or record of exceedances of manufacturer's specified operating range. ☐ No provisions for temperature alarm or record (Additional QA certification testing required).
	CEMS shelter will <u>not</u> be environmentally-controlled (<i>Additional QA certification testing shall be required</i>).
14.	NON-RECLAIM CEMS CERTIFICATION OPTIONS (<u>Non-RECLAIM CEMS Applicants Only</u>)
	Before Final CEMS Certification, Non-RECLAIM or "Command-and-Control" CEMS Applicants must check the appropriate box below, which indicates how they will certify, and maintain this CEMS (be sure to read both of these documents before deciding):
	CEMS is to be reviewed and certified according to the performance specifications of Rule 218.1, and will be subject to Rule 218.1 Quality Assurance requirements.
	☐ CEMS is to be reviewed and certified according to the applicable performance specifications of 40CFR60, Appendix B, and will be subject to the Quality Assurance requirements of 40CFR60, Appendix F.
15.	MULTI-POINT PROBE REQUIREMENTS (Multi-Point Probe Applicants Only) I have read and understand the procedures for "pre-certifying" the multiple-point probe for my CEMS, and the continued QA measures as described in South Coast Air Quality Management District Source Testing Form 511: "Multi-Point Probe Acceptance and Quality Assurance Standards, for Use in Conjunction with EPA/EMTIC Guidance Document (GD)-031". I understand that the completed probe bench-test report must be submitted to the South Coast AQMD for formal approval before the probe may be installed in the stack sampling location, and that issuance of CEMS Initial Approval will be contingent upon the successful completion of this task.
16.	EXPEDITED REVIEW REQUESTED (Read Below, Carefully, Before Requesting) I have read the South Coast Air Quality District Rule 301(v)(3) regarding the provisions for an expedited CEMS certification review, and I understand that it entails paying additional fees upon completion of this project, and that the decision to grant expedited review will be at the discretion of the Manager of the Source Testing Branch of the South Coast AQMD. I also understand the limitations concerning CEMS expedited review: The only processes involving CEMS Certification which can be expedited concern South Coast AQMD's responsibility to provide a prompt review and approval of complete CEMS Application, CEMS Test Protocol and Report, and CEMS Final Certification when these documents are submitted in a timely manner. Submittal of incomplete documentation for review, and on-site scheduling problems will still delay the review process – expedited, or not. Expedited or "fast track" CEMS review will not provide relief from meeting mandated Permitting and Compliance deadlines, nor will it directly affect issuance of Permit-to Operate.
	☐ I am requesting an expedited CEMS review (Please explain briefly the time constraints or reasons for expedited request, to aid in our assessment of your request):

		ecessary):
ll of the information in this CEMS Applicati	ion is accurate to the best of t	ny knowledge, and
certification options (if applicable) and the	confidentiality of informatio	n statement, and t
GNATURE OF COMPANY REF	PRESENTATIVE	
	Date:	
(Title)	(PHONE)	(Date)
	certification options (if applicable) and the	ll of the information in this CEMS Application is accurate to the best of a certification options (if applicable) and the confidentiality of information options (if applicable) and the confidentiality of information options.

A basic or initial application fee is due with each CEMS Application (Reference: *Rule 301(j)(5)*, please complete attached Form *ST-400* "*RECLAIM & Non-RECLAIM CEMS Plan, Application Fee Processing Form*"). A copy of this application is also available on disk, formatted for MS WORD or ADOBE ACROBAT. To obtain this form, please check the South Coast Air Quality Management District Website at www.aqmd.gov, or contact us at (909) 396-2273 (*e-mail: dsarkar@aqmd.gov*).

APPENDIX A

SIMPLIFIED PROCESS FLOW DIAGRAM (Reference Section 3)

Provide a simple flow/block diagram showing both the basic and control equipment, and include the exhaust stack where the CEMS will be mounted. Be sure to include by-pass ducts, emergency venting stacks, blanked-off stacks, recirculated flows and influent or effluent flow to or from related processes.

FORM ST-220 : 220cemsa_applicationonly2223.doc (REVISED 06/28/2022) (CEMS APPLICATION) Page 12

APPENDIX B

SIMPLIFIED STACK DIAGRAM (Reference Section 4)

Show the CEMS sampling probe and reference sample port locations (top/cross-section and side views) in the exhaust stack with respect to the upstream and downstream flow disturbances (fans, dampers, transitions, change in stack cross-sectional areas, etc.). Indicate distances and dimensions for the above information. **ACEMS applicants** must show, dimensionally, the location of all parametric sensors or monitors with respect to the process equipment, influent and exhaust flows, and reference method sampling locations.

APPENDIX C

SIMPLIFIED CEMS DIAGRAM (Reference Section 5)

Show a flow diagram indicating the routing of sample and calibration gases through the sample acquisition, transport, and conditioning units. This diagram shall include the components of the CEMS (probe, filter, heat traced line, NO_x converter, conditioning system, sample pumps, flow meters, analyzers, recorders, calibration systems, connecting lines, valves, flow and pressure regulators), including by-pass vents. Indicate temperature, pressure, and moisture at key points.

¹⁰ ACEMS Applicants: Complete APPENDIX G Instead

FORM ST-220: 220cemsa_applicationonly2223.doc (REVISED 06/28/2022) (CEMS APPLICATION) Page 14

SIMPLIFIED MULTI-POINT PROBE DIAGRAM (Reference Section 5)

Show a dimensional drawing of the proposed multiple-point probe indicating hole bore, hole spacing with respect to inside stack wall, port flange offset, and center-of-stack. Also include sample routing diagram showing audit port (required), vacuum or differential pressure gage (required), flowmeter/rotometer (required), high-volume pump, heated instrument box (if applicable), and connective tubing/valves. Remember, the multiple-point probe must be successfully bench tested according to South Coast Air Quality Management District Source Testing *Form 511*: "Multi-Point Probe Acceptance and Quality Assurance Standards, for Use in Conjunction with EPA/EMTIC Guidance Document (GD)-031" before it may be installed on the stack or duct.

Total Points:	(No. Probes:	Pts/Probe:	Bore:)
Pump Specs ¹¹ : Make/Mdl:		Flowrate:	
Sample Audit Port (required	<i>d</i>):	Yes	☐ No
Flow Meter ¹² (required):	Rotometer	Other Type:	
Vacuum/Differential Pressu	re Gage ¹² (required):	☐ Vacuum	☐ Diff Press
Probe Blowback Capability	(recommended):	Yes	☐ No

-

¹¹ Pump flowrate must be included and be accurate because the probe assembly will be bench-tested and pre-certified at that flowrate. Use of a lower flow pump when the probe is installed on the stack will invalidate the pre-certification.

¹² The probe assembly will be bench-tested exactly as it would be configured on the stack (except for the pump as long as a similar one is used) with the vacuum/Δp and flow devices attached. Vacuum/Δp and flow measurements are a part of the required parameters to be recorded and documented for pre-certification, and they will be used for on-going QA demonstration.

APPENDIX D

DETERMINATION OF REQUIRED MONITORING PARAMETERS

(Reference Section 6)

Detail, step by step, how the parameters checked in *Section 6* will be applied to the final monitoring requirement by use of equations, assumptions, and calculations. (Be sure to detail how corrections will be made to dry, standard conditions, or conditions imposed by rules or permits). **ACEMS applicants** must include a model of the parametric monitoring system describing the relationship of each monitoring parameter, it's operating range, and redundancy. In addition, the operational limit of the process monitored, equations, algorithms, factors, and coefficients for determining the final monitoring requirement must be submitted. An electronic copy of the parametric model may also be submitted.

APPENDIX E

BRIEF DESCRIPTION OF COMPUTER PROGRAMMING LOGIC

(Reference Section 7)

Briefly describe how the parameters you described in *Section 6* will be programmed into the data reduction and recording units. Use block diagrams, or a copy of recorded data if needed, to show the location in the program where constants, variables and other parameters are entered. Also include the frequency that each monitoring parameter is polled by the DAS/PLC.

APPENDIX F

CEMS Designation:

(SOx CEMS Applicants Only)

DESCRIPTION OF SOx SOURCE EQUIPMENT SERVED BY A FUEL SULFUR MONITORING SYSTEM (FSMS)

(Reference Sections 2 and 5b.)

Supply the required information. Attach additional copies if required. If the piece of equipment is also a RECLAIM NOx Major Source, be sure to complete a separate CEMS application.

CEMS Descriptio		Г	☐ Total Sulfur Mo	miton 🗆	SOw CEMS		
Indicate the type		L			SOx CEMS		
	nt Information	1	Fuel Meter Information				
Equipment	Device I.D., Application, Permit No.	NOx (LGE or MAJ) ¹³	Make & Model	Principle (orifice,etc.)	Proposed Range		

¹³ Applicable to RECLAIM sources only.

(ACEMS Applicants Only)

SUPPLEMENTAL INFORMATION FOR "ACEMS"

(Reference Sections 2 and 5)

ACEMS INFORMATION This appendix supplements *Section 2*, and replaces Sections 5.a. and 5.b. If you require more space for completion, make additional copies of this section and attach information. Please attach manufacturer's specification sheets in *Attachment 2*

1. OPERATIONAL LIMIT OF BASIC (as described in <i>Section 2</i>), which the Following Final Certification, data fall A. LOWER OPERATIONAL LIMIT:	ACEMS parametric mode	l will incorporate, a fill be regarded as "l	nd for which valid data v	will be produced by the AC an accordingly).		
20 (/2.1 0. 2.1.1.10. (/2. 2.1.1.2.1		(units)				
2. PARAMETRIC MONITORING IN	FORMATION (serial nu	mbers shall be submitte	d when installation is complete	ed)		
Monitoring Parameter	Type Sensor	Make	Model	Monitoring Range		itoring
(be specific: manifold vacuum, stack temperature, etc.)	(e.g., thermal anemometer)			(include units)	Primary	rarchy Secondary

PARAMETRIC MONITORING INFORMATION (CONT'D)

Monitoring Parameter (be specific: manifold vacuum, stack temperature, etc.)	Type Sensor (e.g., thermal anemometer)	Make	Model	Monitoring Range (include units)	Monitoring Hierarchy Primary Secondary	

ATTACHMENT 1

SOUTH COAST AQMD PERMITS AND CORRESPONDENCE

(Reference Sections 2 and 8)

Please attach the following information related to the basic and control equipment to be monitored, to this sheet, and label them as "Attachment 1":

- Applicable permits
- Other pertinent South Coast AQMD correspondence

ATTACHMENT 2

MANUFACTURER'S AND/OR VENDOR'S SPECIFICATIONS

(Reference Section 9)

Please attach the following information related to the CEMS (analyzers, components, monitors, data acquisition and recording systems, program logic controllers, etc.), to this sheet, and label them as "Attachment 2":

- Manufacturer's and/or vendor's technical specification sheets
- Other pertinent CEMS information

QUALITY ASSURANCE PLAN (QAP)

(Reference Section 10)

Please attach the following information related to the CEMS QA/QC, and label it as "Attachment 3":

- Copy of <u>complete</u> Quality Assurance Plan (QAP) for this CEMS, or reference to Facility-wide CEMS QAP with specific QA/QC section for this CEMS attached
- If copy of QAP is unfinished/incomplete, provide brief description or outline of QAP

NOTE TO ALL APPLICANTS: The complete QAP must be submitted, and approved before CEMS "Final Certification can be granted.

ATTACHED FORMS

The following forms should be attached:

- <u>FORM ST-300, "CEMS Vendors List"</u> A representative list (not a complete list) of possible CEMS vendors.
- FORM ST-400, "CEMS Fee Sheet"

Please complete the requested information, determine the basic fee charged for the CEMS Certification, Modification, or Change-of-Ownership at your facility; and attach to this submittal along with a check for the required amount.

If either of these forms are missing, you may obtain them at:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Drive Diamond Bar, CA 91765-4182

Source Test Engineering Branch, Monitoring & Analysis Division

(909) 396-2273

RECLAIM & NON-RECLAIM CEMS PLAN, APPLICATION FEE PROCESSING FORM ST-400/22231 **South Coast Air Quality Management District**

(Fees are applicable FY 22-23)

1. COMPANY INFOR	RMATION	PLEASE COM	MPLETE TH	E <u>UNSH</u>	<u>ADED</u> ARI	EAS O	F THIS FO	RM (FOR INSTRU	JCTIONS,	SEE REVERSE SIDE)
LEGAL NAME OF APPL	ICANT:									
BUSINESS MAILING AD	DDRESS:									
2. FACILITY INFOR	MATION	(ONE FACIL	ITY ID PER	FORM. S	SEE REVE	RSE S	IDE FOR N	MORE INFORMAT	TON)	
FACILITY NAME:									Г	FACILITY ID NO:
EQUIPMENT/FACILITY 1	LOCATION: (I	F SAME AS MAII	LING ADDR	ESS, EN	ΓER "SAM	E")				
CONTACT PERSON:			CONTACT TITLE: CONTACT T					TELEPHONE NO:		
3. CEMS PROJECT		(ITEMIZE E	ACH INDIV	'IDUAL I	PIECE OF I	EQUIP	MENT &	APPLICABLE BAS	SIC PROC	ESSING FEE,
Information							COF FOR			ETS IF REQUIRED)
BASIC EQUIPM			EQUI	PMEN'	r ID N O).		FEE INFORMATI		TION
(EQUIPMENT MONIT SOUTH COAST AQMD			DEVICE II)	(A/N)	CEMS	PROJECT DESCRIP	PTION ²	BASIC FEE
				(,)				
				()				
				()				
				()				
				()				
				()				
				()				
				()				
				(,)				
				()				
)	Тот	AL FEES INCLU	IDED .	
							101	AL FEES INCLU	DED :	
SIGNATURE		(IF COMI	PLETED BY	СОМРА	NY REPRI	ESENT	TATIVE)			
COMPLETED BY:										
(SIGNATURE OF RESPONSIBLE MEMBER OF ORGANIZATION) (DATE)										
TYPE OR PRINT NAME OF SIGNER:			TITLE	LE OF SIGNER: TELEPHONE NO:			E No:			
SOUTH COAST AIR	OUALITY N	IANAGEMENT	r Distric	T T USE	ONLY)	
PROGRAM SUPERVISOR	PROGRAM SUPERVISOR: DIV/BRANCH:			ASSIGN S/T ENGR:		(PHONE	E)	(DATE STAMP)		
DIPANKAR SAR		M&AD	/ STE					()	
TRXN TYPE:	COMMENT: CEMS EVAL	LUATION		CHECI	k No.:			AMOUNT:		

INSTRUCTIONS FOR COMPLETION OF FEE PROCESSING FORM

Complete all of the information requested in <u>Sections 1 and 2, Company and Facility Information</u>. Be sure to include the Facility I.D. No. (from Facility Permit to Operate). If your facility has "major" equipment at more than one location and/or listed under more than one Facility I.D. No., complete one of these forms <u>for each Facility I.D. No.</u>, listing the applicable equipment information for each Facility I.D.-based location.

Refer to the TABLE below when completing <u>Section 3</u>, <u>CEMS Equipment Information</u>. The <u>Basic or Minimum Fee</u> below is the appropriate filing fee for each <u>Project</u> on this form (NOTE: Expedited projects must have South Coast Air Quality Management District approval before filing). It is an initial accounting, and you may be billed at the completion of the project for additional expenses if any CEMS Project has more components, or utilizes more evaluation time than allocated by that basic fee. Be sure to include the equipment Device I.D., Application or Permit No. (where applicable) from the Facility Permit to Operate. You may include more than one type of fee on a single form, as long as they are clearly marked as to <u>Project and Equipment</u>. Use additional sheets to list equipment, if needed, and total results.

South Coast AQMD Rules 301 and 306 Applicable CEMS Processing Fees (Updated July 1, 2022) (Fees Effective for all CEMS submittals beginning July 1, 2022)

South Coast AQMD	CEMS Project	Evaluation Fee						
Rule	Description	Basic or I	Minimum	Maximum				
		Normal	Expedited1	Normal	Expedited ¹			
301(j)(5)(A) TABLE IIB, and 301(v)(3)	CEMS Initial Certification or CEMS Modification with Additional Components, according to the following schedule ² :							
	a. 1-2 components, any combination pollutant, diluent, flow	\$ 4,488.01	\$ 4,488.01	\$ 8,035.61	\$ 13,986.96			
	b. 3-4 components, any combination pollutant, diluent, flow	\$ 5,398.74	\$ 5,398.74	\$ 14,787.29	\$ 25,823.51			
	c. Each additional component, beyond 4 components, add to "b." above	+ \$0.00	+ \$0.00	+ \$ 3,652.72	+ \$ 5,546.99			
	d. <u>Time-Shared CEMS</u> (add to applicable CEMS fee determined above)	+ \$ 0.00	+ \$ 0.00	+ \$ 3,652.72	+ \$ 5,546.99			
301(j)(5)(A) TABLE IIB, and 301(v)(3)	ACEMS Initial Certification (excluding modifications):	\$ 4,488.013	\$ 4,488.01	\$ 14,787.29	\$ 25,823.51			
301(j)(5)(B)(C) (D), and 301(v)(3)	<u>CEMS Modification</u> (excluding additional components) or CEMS monitored equipment, CEMS Periodic Assessment Evaluation:	\$ 1,045.804	\$ 1,045.80	\$ 6,613.03	\$ 10,528.05			
301(j)(5)(E)	CEMS Change of Ownership to facility document files according to the following schedule:							
	a. First CEMS	\$ 315.28						
	b. Each additional CEMS							

Please return this form (signed and dated), along with the appropriate CEMS Application, Plan, Protocol, Report, Modification, or Change-of-Ownership requiring evaluation; and a check for the total fees. (You may include a single check for the total amount of all submitted fee processing forms):

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT Monitoring & Analysis Division, Source Test Engineering Branch 21865 Copley Drive Diamond Bar, CA 91765-4182

If you require help, or more forms, please contact your assigned CEMS representative, or phone (909) 396-2273.

¹ Requests for expedited evaluations must be approved by South Coast AQMD staff before filing, since expedited review is contingent upon availability of qualified staff over and above regular review scheduling. Expedited reviews shall be billed at the hourly premium of \$ 102.79 / hr for CEMS, and \$ 89.76 / hr for Protocol or Report evaluations, in addition to normal hourly fees shown below, and as reflected in the expedited "Basic or Minimum Fee", payable at time of filing.

² Covers up to 40 hours of evaluation time for the first two components, an additional 20 hours for the first four components, and an additional 12 hours per component beyond four. Excess time will be billed at the hourly rate of \$ 198.21 / hr, up to the maximum allowable fee.

³ Covers up to 40 hours of evaluation time. Excess time will be billed at the hourly rate of \$ 198.21 / hr, up to the maximum allowable fee.

⁴ Covers up to 10 hours of evaluation time. Excess time will be billed at the hourly rate of \$ 198.21 / hr, up to the maximum allowable fee.